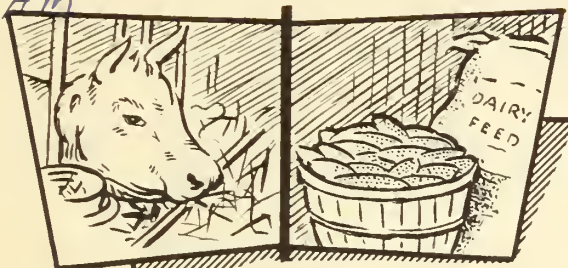


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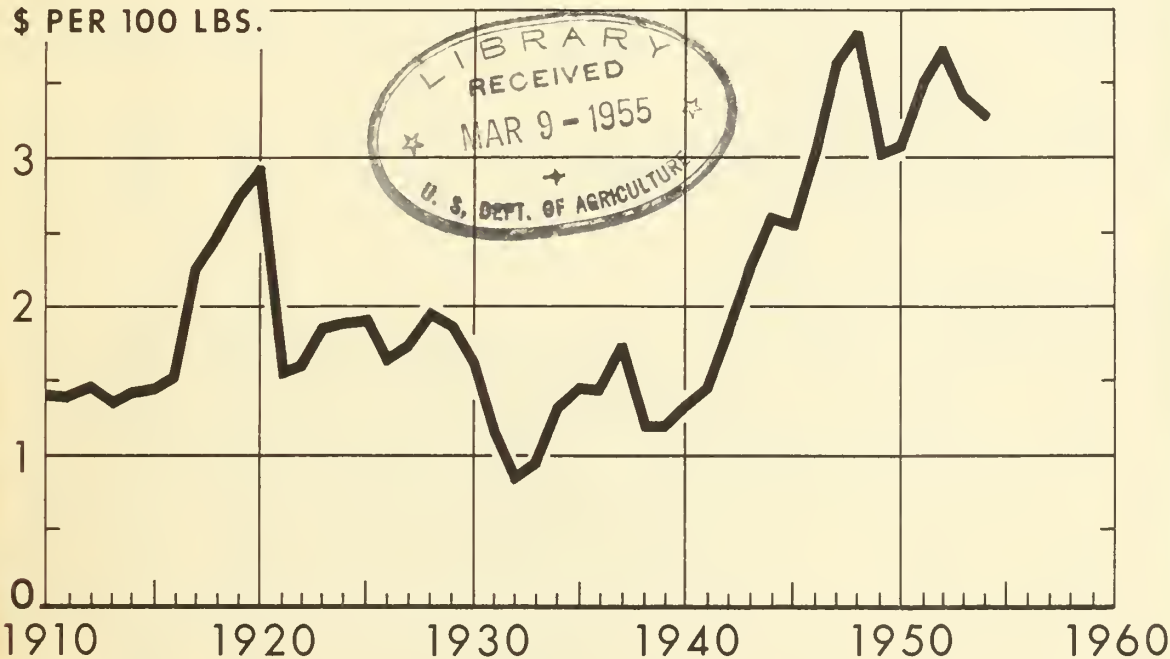
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RATIONS FED TO MILK COWS • 1954

VALUE OF CONCENTRATE RATIONS FED MILK COWS

\$ PER 100 LBS.



U. S. DEPARTMENT OF AGRICULTURE

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AGRICULTURAL MARKETING SERVICE

AMS 1295-55 (1)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
WASHINGTON, D. C.

January 1955

RATIONS FED TO MILK COWS, 1954

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UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
WASHINGTON, D. C.

January 26, 1955

X RATIONS FED TO MILK COWS, 1954^{1/}
SUMMARY

A total of 18 3/4 million tons of grain and other concentrates worth 1 1/2 billion dollars were fed to milk cows in the United States in 1954, an average of 1,659 pounds per cow, or 30.2 pounds per 100 pounds of milk produced. On dairy reporters' farms, grains made up 59 percent of the ration; commercially mixed feeds, 29 percent; oil seeds or meals, 4 percent; wheat millfeeds, 3 percent; and other feeds, 5 percent. Among the grains, corn contributed 32 percent and oats 23 percent. A little over half the total concentrate ration was homegrown feeds. The value per 100 pounds of concentrate rations fed in 1954 averaged \$3.30, the lowest in 4 years, and equivalent to a cost of 99 cents per 100 pounds of milk produced. With lower prices for dairy products in 1954, the butterfat-feed price ratio was the least favorable for feeding in two decades, and the milk-feed price ratio was 6 percent below the longtime average.

Roughage fed per milk cow in reporters' herds during the winter feeding season, October 1953-May 1954, included 2.2 tons of hay, 2.1 tons of silage, and 0.1 ton of other dry roughage. Alfalfa and its mixtures made up 59 percent of the hay fed; clover, mixed clover, and lespedeza together, 27 percent; and other hays, 14 percent. About 85 percent of the hay was homegrown and 15 percent purchased. Silage feeding has increased steadily over the last decade. In 1954, corn silage made up 71 percent of the total, grass silage 22 percent, and other silage 7 percent. The 1954 dairy pasture season ranked with 1953 as the poorest in 15 years, with grazing especially short in the South.

CONCENTRATE RATIONS FED TO MILK COWS

Milk cows on United States farms in 1954 were fed an estimated total of 18,721,000 tons of grain and concentrate feeds--the second largest quantity fed in almost a quarter century of records. Of this total, 16,986,000 tons, or 91 percent, were fed on farms where milk or cream was sold, and 1,735,000 tons, or 9 percent, on farms where milk was produced for home use only. The total volume of grain and concentrates fed on farms in 1954 was up 1 percent from 1953, with heavier use of grain and concentrates in all regions except the West North Central. Increases ranged from a fractional gain in the East North Central to 4 percent in the South Central region. Wisconsin again led in total quantity of grains and concentrates fed to milk cows with 2,082,000 tons; followed by New York with 1,380,000 tons; Minnesota, 1,103,000 tons; and Pennsylvania, 1,064,000 tons. For data on grain and concentrates fed by States, see table 4.

Grain and concentrates fed per milk cow on farms averaged 1,659 pounds in 1954, only slightly below last year's record of 1,676 pounds. Regional feeding rates were highest in the North Atlantic area, averaging 2,038 pounds per cow; followed by the East North Central, 1,845 pounds; South Atlantic, 1,647 pounds;

1/ Prepared by John L. Wilson and Herbert M. Walters, Agricultural Statisticians, under the general direction of B. H. Bennett, Chief, Dairy Statistics Branch. The 41 State Agricultural Statisticians and members of their staffs collected and summarized the voluntary reports from farmers upon which the series are based.

Table 1.-Amount and cost of concentrates fed per 100 pounds of milk produced on farms where milk or cream was sold, United States, by months, 1943-52 average, 1953 and 1954 1/

Month	Concentrates fed per			Value per 100 pounds			Cost of concentrates fed per		
	100 pounds of milk			of concentrate ration			100 pounds milk produced		
	1943-52	1953	1954	1943-52	1953	1954	1943-52	1953	1954
	av.			av.			av.		
	Lb.	Lb.	Lb.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.
Jan.	42	39	38	3.08	3.67	3.33	1.29	1.43	1.27
Feb.	40	37	37	3.04	3.60	3.38	1.22	1.33	1.25
Mar.	38	36	35	3.08	3.59	3.40	1.17	1.29	1.19
Apr.	35	34	33	3.12	3.54	3.38	1.09	1.20	1.12
May	26	27	26	3.15	3.49	3.35	.82	.94	.87
June	19	21	21	3.17	3.41	3.30	.60	.72	.69
July	20	22	23	3.20	3.40	3.26	.64	.75	.75
Aug.	23	25	25	3.18	3.39	3.28	.73	.85	.82
Sept.	26	28	27	3.16	3.32	3.29	.82	.93	.89
Oct.	31	33	31	3.13	3.22	3.21	.97	1.06	1.00
Nov.	37	36	34	3.13	3.19	3.18	1.16	1.15	1.08
Dec.	41	38	36	3.20	3.29	3.21	1.31	1.25	1.16
Year av.	30.4	30.7	30.0	3.14	3.43	3.30	.95	1.05	.99

1/ "Concentrates" as used here includes the grain, millfeeds, and other concentrates that make up the concentrate ration fed to milk cows.

West, 1,592 pounds; West North Central, 1,554 pounds; and lowest in the South Central region with 1,310 pounds. Among the States, feeding rates showed the usual extreme variation, ranging from a high of over 1½ tons per cow in Florida, where citrus pulp is included in the concentrate ration, to less than a half ton per cow in Nevada. Other heavy concentrate feeding States in 1954 were New Jersey with 2,470 pounds; Pennsylvania, 2,250 pounds; Rhode Island, 2,150; and Connecticut, 2,000 pounds.

In 1954, farmers fed an average of 30.2 pounds of grains and concentrates per 100 pounds of milk produced. On farms selling milk or cream, the rate averaged 30.0 pounds, 2 percent below 1953 and one of the lowest in 12 years. Regionally, grain feeding rates were above 1953 in the South but below elsewhere, and varied from a high of 39.7 pounds of concentrate ration per 100 pounds of milk in the South Central region, down to 22.9 pounds in the West. Seasonally, the amount fed per 100 pounds of milk ranged from a high of 38 pounds in January to a low of 21 pounds in June. The cost of concentrates fed per 100 pounds of milk produced in 1954 was 99 cents--6 percent below the 1953 average of \$1.05, but still 4 percent above average.

Little Change in 1954 Concentrate Ration Makeup

Grain and concentrate rations fed to dairy reporters' herds in 1954 included: corn, 32 percent; commercial mixed feeds, 29 percent; oats, 23 percent; barley and wheat millfeeds, 3 percent each; cottonseed meal, 2 percent; wheat, linseed meal, soybeans or soybean meal, 1 percent each; and miscellaneous feeds, 5 percent.

Table 2.—Individual feeds as percentage of the total concentrate ration fed to milk cows in herds kept by dairy reporters, United States, 1944-54 1/

Year	Small grains				Oil seeds and oil-seed meals				Other	Com-	Misc.	
	Corn	Oats	Barley	Wheat	Cotton- seed meal	Cot- ton- seed	Lin- seed meal	Soybeans or S.B. meal	millfeeds	mer-		
									Gluten	Wheat		cial
Percent of total												
1944	30.6	18.4	4.5	3.3	2.0	.6	1.8	3.3	.7	4.3	26.9	3.6
1945	30.6	20.4	4.0	2.1	2.0	.4	1.2	3.1	.6	4.9	26.7	3.8
1946	29.1	25.4	4.2	1.6	1.1	.2	1.1	2.1	.8	3.6	27.3	3.5
1947	29.8	23.1	3.9	1.4	1.6	.4	1.1	2.5	.6	4.3	26.3	5.0
1948	28.4	23.2	3.9	1.4	2.1	.3	1.7	2.1	.6	4.0	27.3	5.0
1949	32.4	22.5	3.6	1.2	1.8	.4	1.7	2.1	.6	3.2	25.7	4.8
1950	32.2	22.5	3.5	1.1	1.5	.2	1.4	2.3	.5	3.4	26.2	5.2
1951	31.7	23.3	3.5	.9	1.2	.2	1.4	2.2	.5	3.4	26.7	5.0
1952	32.2	22.0	2.9	1.0	1.3	.3	1.0	1.5	.4	3.0	30.3	4.1
1953	33.5	21.2	2.7	.8	1.5	.2	1.1	1.8	.5	3.2	28.8	4.7
1954	31.7	23.1	3.3	.8	1.6	.3	1.0	1.1	.4	2.9	28.7	5.1

1/ Based on reports of rations fed on May 1 and November 1.

Rations fed in 1954 showed only minor changes in composition from those fed a year earlier. Corn and small grains accounted for about four-fifths of the total fed in both the East and West North Central areas, about 40 percent in the southern regions, about one-third in the North Atlantic, and one-fourth in the West. Commercial mixed feed made up well over half of the grain and concentrate rations fed in the North Atlantic and Western regions, about 40 percent in the South Atlantic and South Central areas and around 10 percent in the other regions. For data on kinds of feeds fed by States, see table 8.

Of the total grain and concentrate rations fed to milk cows in 1954, 51.1 percent was grown on the farms where fed. This compares with 50.8 percent in 1953 and 50.6 percent in 1952. Regionally, homegrown feeds were most important in the heavy grain producing areas, accounting for 75 percent of the total concentrate rations fed in the East North Central States and 71 percent in the West North Central region. In other areas, homegrown feeds represented 32 percent of the concentrate rations fed by dairy reporters in the South Atlantic and South Central regions, 27 percent in the North Atlantic, and 17 percent in the West. By States, the percentage of concentrate ration homegrown varied from 1 percent or less in California and most New England States to 80 percent or more in Michigan, Minnesota, Iowa, North Dakota, South Dakota, and Nebraska. Of the major grain components used in dairy rations in 1954, about seven-eighths of the corn and oats was homegrown and about three-fourths of the barley. For percentage homegrown by States and by kind of feed, see table 12.

Concentrate Ration Values Lowest in Four Years

The average value per 100 pounds of grain and concentrates fed to milk cows in 1954 was \$3.30—4 percent below 1953, 14 percent below the 1948 record high of \$3.84, but still the sixth highest annual average in over four decades of records. In each month of 1954, ration values were the lowest for the month since 1950. States showed the usual substantial variation in value of concentrate rations fed in 1954, ranging from \$1.98 per hundredweight in North Dakota to \$4.24 in Maine and West Virginia. The milk-feed price ratio for 1954 averaged 1.19, the lowest since 1947, 5 percent below 1953, and 6 percent below the longtime annual average. The butterfat-feed price ratio for 1954, which averaged 19.7, was the lowest for any year since 1934, 9 percent below 1953 and 16 percent below the 1933-52 average.

Table 3.—Hay and silage fed to milk cows in herds kept by dairy reporters, United States, winter feeding period, 1945-54 1/

Winter feeding period ending May	Hay					Silage				
	Kind					Kind				
	Amount:	Clover,			Propor-	Amount:	Corn			
	per	Alfalfa:	mixed	Other:	tion	per	Corn	Grass	Other:	
	cow	:clover & :			pur-	cow	:			
		:lespedeza:			chased		:			
	Tons	Percent of total			Percent	Tons	Percent of total			
1945	2.0	39	34	27	11.5	1.4	87	1	12	
1946	2.1	40	38	22	10.9	1.5	85	1	14	
1947	2.1	38	40	22	12.8	1.5	88	2	10	
1948	2.2	41	35	24	12.6	1.5	86	4	10	
1949	2.2	44	34	22	13.9	1.6	83	6	11	
1950	2.2	49	30	21	14.1	1.7	83	6	11	
1951	2.2	49	30	21	13.0	1.6	79	9	12	
1952	2.3	51	30	19	13.0	1.8	69	20	11	
1953	2.2	50	33	17	14.4	1.9	70	21	9	
1954	2.2	59	27	14	15.4	2.1	71	22	7	

1/ For October-May winter feeding period as reported May 1.

ROUGHAGE FED TO MILK COWS

Roughage fed per milk cow in herds kept by dairy reporters during the October 1953-May 1954 winter feeding season included 2.2 tons of hay, 2.1 tons of silage and 0.1 ton of other dry roughage. In the past 10 years for which records are available, the amount of hay fed per milk cow has changed but little. However, the amount of silage fed per cow has increased rather steadily and the 2.1 tons per cow fed during the past winter feeding season was $1\frac{1}{2}$ times as high as during the 1944-45 season, the first for which records are available.

The quantity of hay fed per milk cow varied considerably among the different States, depending on the length of the pasture season and the availability and price of hay. Heaviest rates of hay feeding were in the West where several States exceeded 3 tons per cow. In most of the North Central and Northeastern States, the amount ranged between 2 and 3 tons, while in some southern States, less than one ton per milk cow was fed. The amount of silage fed per milk cow was even more variable by areas, ranging from a high of 4 tons per cow in Wisconsin, down to negligible amounts in the deep South and California. Dry roughage other than hay was important mainly in the sorghum growing area. The hay equivalent of hay, silage, and other dry roughage combined ranged between $2\frac{1}{2}$ and 4 tons per milk cow in most of the important northern dairy States.

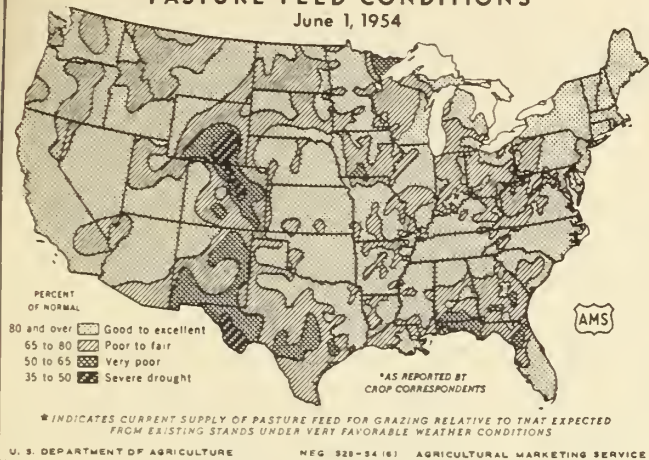
Alfalfa hay predominates

Alfalfa and mixed alfalfa hay made up 59 percent of the total hay fed to milk cows during the 1953-54 winter feeding season; clover, mixed clover, and lespedeza hays as a group, 27 percent; and other kinds 14 percent. Alfalfa was the predominant kind of hay fed to milk cows in the western half of the country, representing more than 90 percent of all hay fed in Idaho, Wyoming, Colorado, Arizona, Utah, and California. Clover, mixed clover, and lespedeza made up a sizeable proportion of the hay fed in the Northeast, the eastern Great Lakes States, and much of the South. Of the hay fed to milk cows, 15 percent was purchased and 85 percent was home-grown. The proportion purchased was slightly higher than in any other of the 9 years for which records are available. Milk producers in North Dakota, New York, Indiana, Wisconsin, and Minnesota purchased less than 5 percent of the hay fed, while those in California, Arizona, and Texas purchased 60 percent or more.

THE 1954 PASTURE SEASON

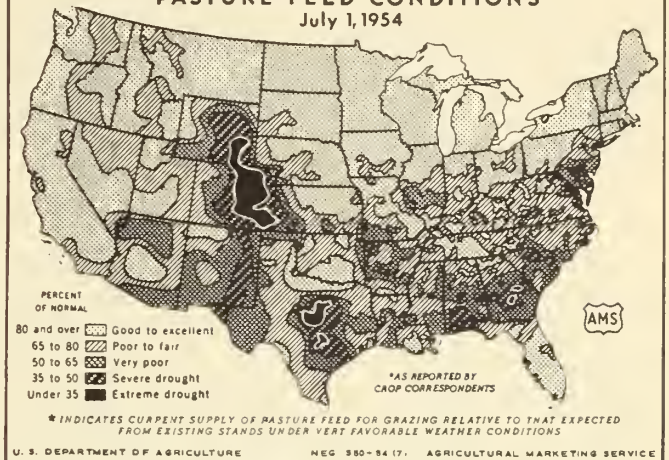
PASTURE FEED CONDITIONS*

June 1, 1954



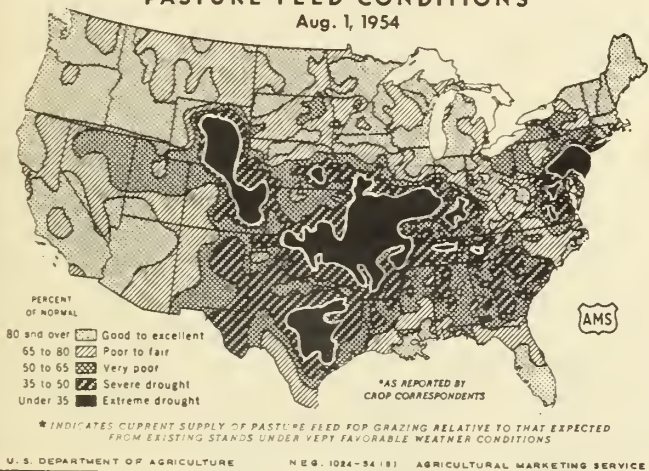
PASTURE FEED CONDITIONS*

July 1, 1954



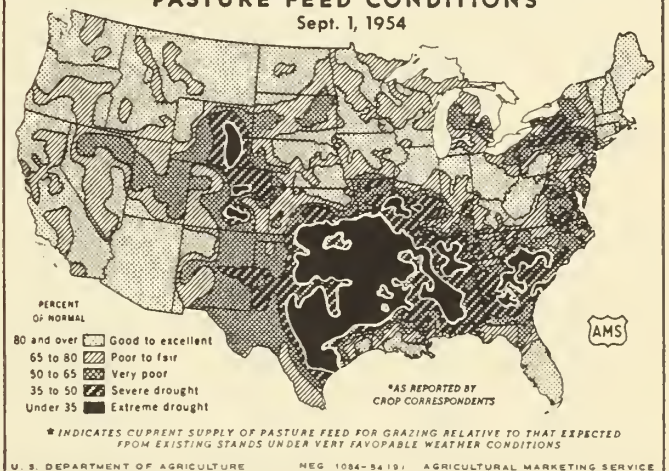
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Aug. 1, 1954



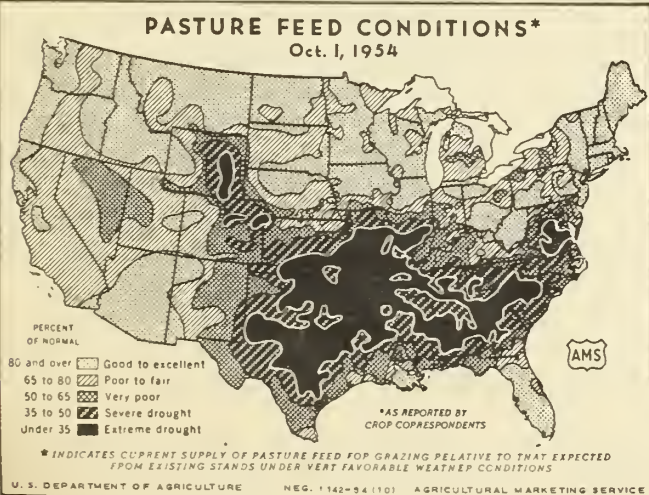
PASTURE FEED CONDITIONS*

Sept. 1, 1954



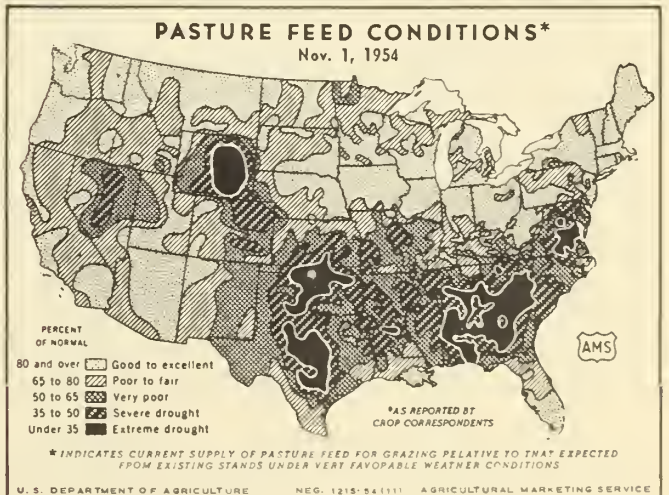
PASTURE FEED CONDITIONS*

Oct. 1, 1954



PASTURE FEED CONDITIONS*

Nov. 1, 1954



Dairy correspondents reported the average value of hay being fed to milk cows on February 1, 1954 at \$25.19 per ton, the second highest in 10 years of record. About 67 percent of the reports were on baled hay, 7 percent on chopped hay, and 26 percent other loose hay.

Of the silage fed to milk cows during the 1953-54 winter feeding season, 71 percent was corn silage, 22 percent grass silage, and 7 percent other kinds of silage. Corn silage represented a substantially smaller proportion of the total than a decade earlier, while grass silage was sharply higher than in any year prior to 1952. As late as 8 years ago, grass silage made up only 1 percent of the total fed to milk cows.

1954 DAIRY PASTURE SEASON

Pasture feed for milk cows in 1954 was very short in some areas, and for the country as a whole the grazing season, along with 1953, was the poorest in the last 15 years. The condition of dairy pastures during the April 1 - October 1, 1954 period averaged 75.0 percent of normal, compared with 75.4 percent in 1953, and the 1943-52 average of 81.9 percent. While short in 1954, green feed was still more plentiful than in the record drought years of 1934 and 1936 when dairy pasture condition averaged 53.2 and 58.6 percent of normal, respectively. Milk cows in the lower half of the country between the Atlantic Coast and the Rocky Mountains had probably the poorest grazing year since the mid-1930's. On the other hand, 1954 dairy pasture feed was comparatively good in New England, across the more northern sections of the United States, and on the Pacific Coast.

Sharp area contrasts develop by mid-summer

The 1954 dairy pasture season opened with feed short in the early pasture areas of the deep South. With advancement of the season, pastures improved and National condition and prospects rose to average on May 1. Abnormally cool weather coupled with moisture shortages during May retarded development, and on June 1 pasture feed was moderately below average. During June, poor growth in the South resulting from high temperatures and lack of rain was offset by favorable progress of green feed in northern areas and on July 1 pasture for the country continued moderately below average. Dry, hot weather that followed brought about extreme drought conditions in substantial areas including Missouri and portions of surrounding States, the central Atlantic Seaboard, much of east central Texas, and the central Rockies. Despite good green feed in many parts of the North and far West, by August 1 average condition of pastures for the country had fallen to the lowest level for the date in almost two decades. Through August, with further depletion of green feed over much of the South, National average pasture condition continued relatively low. Continued drought during September over the southern half of the country from the Great Plains eastward reduced pasture feed conditions in much of that area to the poorest for October 1 in 35 years of record. On the other hand, in most of the important northern dairy States east of the Mississippi, October 1 pasture feed was somewhat better than in 1953, and from Minnesota and Iowa westward to the Pacific was generally good to excellent. During October, rains in some areas improved pastures, bringing National condition on November 1 up to about average for the date, and mild weather encouraged full use of late feed. However, the sharp contrast between good pastures in the North and poor grazing in the South persisted through the fall.

For individual States, average dairy pasture condition for the 1954 season varied widely, reflecting the extremes in weather over the country. In Texas and Arkansas, seasonal average pasture conditions for 1954 were only 1 point above the 38-year record low, and in Colorado were lower than in all years except one. In 4 - Southeast States -- South Carolina, Georgia, Florida, and Alabama -- dairy pasture feed in 1954, though not setting a record low in any of the individual States, for the group averaged the poorest in nearly 4 decades of record. In Oklahoma and Missouri, dairy pastures were the 4th lowest of record. On the other hand, New England had an unusually good pasture season in 1954, with Maine, New Hampshire, Vermont, and Massachusetts all having season average conditions of 92 percent or above.

Table 4.—Grain and other concentrates fed to milk cows on farms where milk or cream was sold and on farms where milk was produced for home use only, by States, 1954 ^{1/}

State and Division	On farms where milk or cream was sold ^{2/}			On farms where milk was produced for home use only			On all farms where milk was produced		
	Pounds fed per 100 lbs. milk	Pounds fed per cow	Total fed 1,000 tons	Pounds fed per cow	Total fed 1,000 tons	Pounds fed per cow	Total fed 1,000 tons		
Me.	31	1,890	98	1,340	12	1,810	110		
N. H.	26	1,590	48	1,190	2	1,560	50		
Vt.	27	1,630	226	1,200	3	1,620	229		
Mass.	28	1,920	113	1,330	3	1,900	116		
R. I.	29	2,210	21	1,420	1	2,150	22		
Conn.	30	2,030	108	1,350	3	2,000	111		
N. Y.	29	2,000	1,358	1,350	22	1,980	1,380		
N. J.	33	2,510	188	1,550	4	2,470	192		
Pa.	35	2,290	1,023	1,570	41	2,250	1,064		
N. Atl.	30.8	2,063	3,183	1,441	91	2,038	3,274		
Ohio	31	1,920	865	1,390	40	1,890	905		
Ind.	32	1,950	596	1,420	26	1,920	622		
Ill.	32	1,960	791	1,440	37	1,930	828		
Mich.	28	1,830	782	1,330	20	1,810	802		
Wis.	25	1,790	2,075	1,150	7	1,790	2,082		
E. N. Cent.	28.1	1,860	5,109	1,383	130	1,845	5,239		
Minn.	26	1,590	1,091	1,200	12	1,580	1,103		
Iowa	32	1,790	912	1,400	29	1,770	941		
Mo.	36	1,520	711	1,290	70	1,580	781		
N. Dak.	28	1,320	234	1,010	13	1,300	247		
S. Dak.	23	1,230	179	930	10	1,210	189		
Nebr.	28	1,450	288	1,070	18	1,420	306		
Kans.	31	1,500	359	1,220	28	1,480	387		
W. N. Cent.	29.8	1,575	3,774	1,207	180	1,554	3,954		
Del.	35	1,900	34	1,340	2	1,820	36		
Md.	35	2,030	236	1,410	14	1,980	250		
Va.	32	1,570	256	1,140	65	1,460	321		
W. Va.	29	1,210	84	910	32	1,110	116		
N. C.	39	1,980	194	1,330	131	1,660	325		
S. C.	40	1,710	60	1,070	50	1,350	110		
Ga.	44	1,690	139	1,140	109	1,320	247		
Fla.	77	3,640	222	1,500	23	3,220	245		
S. Atl.	39.3	1,904	1,224	1,185	426	1,647	1,650		
Ky.	36	1,490	371	1,160	81	1,420	452		
Tenn.	38	1,450	363	1,160	113	1,370	476		
Ala.	44	1,550	129	1,160	145	1,320	274		
Miss.	42	1,230	200	930	113	1,100	313		
Ark.	40	1,380	180	1,050	88	1,250	268		
La.	44	1,260	123	770	52	1,060	175		
Okla.	35	1,360	264	980	54	1,280	318		
Tex.	44	1,580	507	1,170	185	1,440	692		
S. Cent.	39.7	1,436	2,137	1,067	831	1,310	2,968		
Mont.	22	1,170	52	870	7	1,120	59		
Idaho	19	1,260	131	850	5	1,240	136		
Wyo.	22	1,190	22	830	3	1,140	25		
Colo.	26	1,460	103	1,150	12	1,420	115		
N. Mex.	26	1,240	21	900	6	1,150	27		
Ariz.	20	1,340	28	860	2	1,280	30		
Utah	20	1,330	65	930	4	1,290	69		
Nev.	16	1,030	6	580	1	930	7		
Wash.	24	1,670	202	1,070	12	1,620	214		
Oreg.	26	1,570	151	1,020	9	1,520	160		
Calif.	23	1,930	778	1,140	16	1,900	794		
West	22.9	1,640	1,559	1,000	77	1,592	1,636		
U. S.	30.0	1,739	16,986	1,141	1,735	1,659	18,721		

^{1/} Includes grain, millfeeds, and other concentrates.

^{2/} Slightly more than one-half of the Nation's 3.6 million farms which produce milk sell some milk or cream. Approximately six-sevenths of the milk cows are located on these farms and they produce about nine-tenths of the total milk. Included among them are many farms on which as few as 1, 2, or 3 cows are milked and where production of milk is only a minor farm enterprise.

Table 5.--Grain and concentrates fed per milk cow per day in herds
kept by dairy reporters, by regions, 1943-52 average,
1952, 1953, and 1954 1/

Year	Jan. 1	Feb. 1	Mar. 1	Apr. 1	May 1	June 1	July 1	Aug. 1	Sept. 1	Oct. 1	Nov. 1	Dec. 1	Year av.
<u>P o u n d s</u>													
<u>NORTH ATLANTIC STATES</u>													
1943-52													
av.	7.2	7.3	7.5	7.8	7.8	5.7	5.5	5.6	5.8	6.0	6.6	7.1	6.66
1952	7.6	7.8	7.9	8.2	8.0	5.9	5.9	6.0	6.1	6.4	6.9	7.4	7.01
1953	7.6	7.6	7.8	8.0	7.9	5.6	5.7	5.9	6.1	6.5	6.9	7.3	6.91
1954	7.6	7.6	7.7	8.1	7.7	5.8	5.7	5.8	6.0	6.2	6.7	7.3	6.84
<u>EAST NORTH CENTRAL STATES</u>													
1943-52													
av.	6.9	7.2	7.5	7.7	7.4	4.7	4.1	4.3	4.6	5.1	5.8	6.4	5.98
1952	7.1	7.5	7.6	7.7	7.2	5.0	4.5	4.6	4.7	5.4	6.1	6.8	6.19
1953	7.3	7.7	7.8	7.8	8.0	5.1	4.8	5.0	5.2	5.7	6.4	7.1	6.56
1954	7.6	7.6	7.8	7.9	7.7	5.2	4.8	5.0	5.1	5.6	6.2	6.8	6.42
<u>WEST NORTH CENTRAL STATES</u>													
1943-52													
av.	6.8	7.4	7.7	7.5	7.0	4.3	3.3	3.5	3.5	4.0	5.4	6.1	5.55
1952	6.9	7.5	7.8	7.6	7.2	4.4	3.8	3.9	4.1	4.5	6.1	6.7	5.89
1953	7.3	7.9	7.9	7.9	8.0	5.3	4.4	4.5	4.6	5.0	6.0	6.6	6.28
1954	7.2	7.7	7.9	7.8	7.2	5.3	4.5	4.6	4.7	4.9	5.8	6.4	6.16
<u>SOUTH ATLANTIC STATES</u>													
1943-52													
av.	7.2	7.5	7.4	7.1	6.7	5.6	5.6	5.8	5.9	6.2	6.6	7.0	6.55
1952	7.8	8.2	8.3	7.5	6.9	5.8	5.7	5.9	6.0	6.4	6.8	7.5	6.88
1953	7.5	7.8	7.6	7.0	6.8	5.8	5.8	5.9	6.1	6.7	7.1	7.7	6.82
1954	7.8	7.9	7.8	7.2	6.3	6.1	6.1	6.3	6.5	6.9	7.5	7.9	7.03
<u>SOUTH CENTRAL STATES</u>													
1943-52													
av.	6.7	7.0	6.8	6.3	5.4	4.7	4.5	4.5	4.7	4.9	5.3	5.8	5.56
1952	7.0	7.6	7.3	6.8	5.8	5.1	5.0	5.2	5.3	5.6	6.2	6.8	6.15
1953	7.2	7.6	7.3	6.7	5.6	5.0	4.9	5.1	5.3	5.7	6.4	6.9	6.14
1954	7.3	7.7	7.4	6.8	5.4	5.1	5.1	5.4	5.6	6.0	6.7	7.0	6.30
<u>WESTERN STATES</u>													
1943-52													
av.	5.8	5.9	6.0	5.8	5.5	5.0	4.8	4.9	5.0	5.3	5.5	5.7	5.43
1949 <u>2/</u>	5.9	5.9	6.0	5.9	5.4	5.0	4.8	4.9	5.2	5.5	5.9	6.0	5.54
1950 <u>2/</u>	6.0	6.0	6.0	5.8	5.6	5.1	4.7	4.7	4.8	5.1	5.3	5.6	5.38
1951 <u>2/</u>	5.8	6.2	6.2	6.1	5.9	5.3	5.2	5.5	5.6	5.7	6.0	6.1	5.82
1952 <u>2/</u>	6.2	6.4	6.5	6.3	5.8	5.6	5.5	5.6	5.6	5.7	5.8	6.1	5.92
1953 <u>2/</u>	6.3	6.7	6.7	6.4	6.1	5.8	5.5	5.5	5.6	5.7	5.9	6.0	6.01
1954	6.1	6.2	6.2	5.9	5.6	5.3	5.0	5.0	5.1	5.2	5.6	5.9	5.58

1/ For United States average and basis of series see table 6.

2/ Revised.

Table 6.--Grain and concentrates fed per milk cow per day in herds kept
by dairy reporters, United States, 1st of each month
1931-54 1/

Year	Jan. 1	Feb. 1	Mar. 1	Apr. 1	May 1	June 1	July 1	Aug. 1	Sept. 1	Oct. 1	Nov. 1	Dec. 1	Year av.
Pounds													
1931	5.72	5.75	6.03	6.12	5.23	3.02	2.42	2.42	2.82	3.42	4.23	5.09	4.35
1932	5.58	5.59	5.61	5.51	4.83	2.68	2.16	2.28	2.50	3.16	4.16	4.88	4.08
1933	5.59	5.68	5.80	5.62	4.95	2.81	2.45	2.58	2.50	2.75	3.59	4.21	4.01
1934	4.75	4.76	4.92	4.90	4.34	2.59	2.24	2.36	2.37	2.55	3.05	3.61	3.52
1935	4.28	4.31	4.52	4.42	4.02	2.17	1.90	2.01	2.23	2.59	3.48	4.29	3.40
1936	5.36	5.41	5.58	5.46	5.03	2.93	2.79	3.05	3.12	3.23	3.58	4.14	4.12
1937	4.82	4.93	4.97	4.93	4.36	2.49	2.18	2.36	2.66	3.25	4.09	4.76	3.85
1938	5.54	5.75	5.87	5.77	4.91	2.90	2.65	2.78	2.98	3.45	4.23	4.94	4.32
1939	5.70	5.90	6.01	5.94	5.21	2.99	2.60	2.85	3.07	3.64	4.64	5.05	4.46
1940	5.54	6.17	6.21	6.05	5.48	3.17	2.74	3.01	3.17	3.57	4.54	5.24	4.59
1941	5.93	6.22	6.27	6.12	5.32	3.53	3.33	3.59	3.76	4.16	5.02	5.62	4.92
1942	6.21	6.57	6.57	6.43	5.68	3.79	3.56	3.72	3.82	4.29	5.32	5.97	5.18
1943	6.70	6.95	7.05	6.98	6.57	4.41	3.75	3.89	4.12	4.47	5.47	5.79	5.50
1944	6.45	6.69	6.87	6.83	6.46	4.31	3.84	4.15	4.36	4.64	5.46	5.88	5.51
1945	6.78	7.18	7.27	7.11	6.71	4.99	4.44	4.40	4.44	4.80	5.64	6.09	5.82
1946	6.67	7.17	7.15	7.02	6.44	4.51	3.94	4.13	4.40	4.84	5.62	6.12	5.67
1947	6.66	6.99	7.20	7.22	6.92	5.06	4.34	4.37	4.45	4.66	5.09	5.74	5.71
1948	6.31	6.62	6.78	6.62	6.19	4.53	4.41	4.60	4.75	5.16	5.87	6.47	5.72
1949 2/	7.02	7.41	7.49	7.41	6.93	5.06	4.81	5.02	5.16	5.48	6.07	6.64	6.21
1950 2/	7.13	7.51	7.60	7.54	7.15	5.27	4.66	4.73	4.86	5.27	5.84	6.52	6.17
1951 2/	7.06	7.51	7.63	7.53	7.13	5.07	4.63	4.75	4.92	5.34	6.03	6.60	6.18
1952 2/	7.08	7.52	7.59	7.42	6.99	5.13	4.83	4.95	5.07	5.49	6.26	6.86	6.26
1953 2/	7.25	7.63	7.61	7.44	7.23	5.32	5.00	5.14	5.32	5.74	6.37	6.93	6.42
1954	7.33	7.54	7.59	7.45	6.82	5.37	5.05	5.22	5.36	5.68	6.35	6.83	6.38

1/ Based on periodic replies from a total of about 6,000 dairy correspondents to the question, "How many pounds of grain (including mill feeds and concentrates) were fed yesterday to all milk cows on your farm?" The series is based on quarterly reports (Feb. 1, May 1, Aug. 1, and Nov. 1) from all States, with intervening months interpolated using monthly reports from about a dozen States where dairying is relatively important. 2/ Revised.

Table 7.--Grain and concentrates fed per milk cow per day in herds kept by
crop correspondents, United States, specified dates, 1941-54 1/

Year	Feb. 1	April 1	June 1	Aug. 1	Oct. 1	Dec. 1	Average
Pounds							
1941	5.13	-	-	-	-	4.60	-
1942	5.38	-	-	-	-	4.90	-
1943	5.70	-	-	-	3.20	4.66	-
1944	5.23	5.45	3.30	3.13	3.35	4.73	4.20
1945	5.55	5.54	4.11	3.39	3.59	4.88	4.51
1946	5.56	5.48	3.56	3.24	3.64	4.98	4.41
1947	5.68	5.99	4.04	3.35	3.56	4.80	4.57
1948	5.35	5.46	3.66	3.61	4.01	5.39	4.58
1949	6.32	6.22	4.17	3.98	4.25	5.48	5.07
1950	6.21	6.24	4.50	3.79	4.06	5.48	5.05
1951	6.15	6.28	4.17	3.83	4.10	5.32	4.98
1952	6.09	6.27	4.24	4.01	4.23	5.62	5.08
1953	6.26	6.18	4.41	4.10	4.59	5.66	5.20
1954	6.33	6.33	4.47	4.22	4.49	5.58	5.24

1/ Based on replies from about 15,000 crop reporters. Data from the crop reporters differ from those from dairy reporters shown in table 6 in that they represent farmers reporting on a variety of crop and livestock operations rather than dairying alone, herds are smaller in size, and less specialized attention is usually given the dairy enterprise.

Table 8.-Individual feeds as percentage of the total concentrate ration fed to milk cows in herds kept by dairy reporters, by States, 1954 1/

State and Division	Small grains			Oil seeds and oil-seed meals					Other millfeeds		Com-	Misc.
	Corn	Oats	Bar- ley	Wheat	Cotton- seed meal	Cot- ton- seed	Lin- seed meal	Soybeans or S.B. meal	Gluten feed or meal	Wheat bran, shorts	cial mixed feed	other
Percent of total												
Me.	1	4	-	-	-	-	-	-	-	-	93	2
N. H.	-	-	-	-	-	-	-	-	-	-	99	1
Vt.	-	1	-	-	-	-	-	-	-	1	96	2
Mass.	-	-	-	-	-	-	-	-	-	-	96	4
Conn.	-	-	-	-	-	-	-	-	-	-	96	4
N. Y.	8	15	2	1	-	-	1	1	2	2	62	6
N. J.	12	6	3	-	-	-	1	1	1	2	63	11
Pa.	28	21	6	2	-	-	1	2	1	2	35	2
N. Atl.	13.4	13.7	2.8	1.2	.2	-	.6	.8	1.0	1.7	59.9	4.7
Ohio	61	22	1	1	-	-	1	2	-	2	8	2
Ind.	63	22	-	1	1	-	-	2	-	1	7	3
Ill.	56	30	1	-	-	-	1	1	-	2	7	2
Mich.	44	36	3	2	-	-	1	3	-	1	6	4
Wis.	33	43	1	-	-	-	5	1	1	5	8	3
E. N. Cent.	46.6	33.8	1.2	.5	.2	-	2.3	1.6	.3	3.0	7.5	3.0
Minn.	44	40	2	-	-	-	1	1	-	3	7	2
Iowa	65	25	-	-	-	-	1	2	-	1	5	1
Mo.	27	16	6	1	3	1	-	1	1	6	35	3
N. Dak.	10	75	10	1	-	-	-	-	-	-	1	3
S. Dak.	31	63	2	-	-	-	-	1	-	1	1	1
Nebr.	64	20	3	-	1	-	-	1	-	2	6	3
Kans.	29	19	5	-	4	-	-	1	-	8	17	17
W. N. Cent.	45.1	31.8	3.1	.4	.9	.2	.6	1.3	.1	3.2	11.7	3.6
Del.	43	14	12	-	1	-	-	1	-	2	22	5
Md.	36	14	9	1	1	-	1	2	-	3	29	4
Va.	19	9	9	2	1	1	1	1	-	3	47	7
W. Va.	21	7	3	1	-	-	-	1	-	1	64	2
N. C.	31	22	5	2	5	2	-	1	-	2	28	2
S. C.	14	22	6	-	11	-	-	1	-	-	39	7
Ga.	19	13	2	-	10	-	1	1	-	1	39	14
Fla.	3	1	-	-	5	-	-	-	-	3	65	33
S. Atl.	21.9	11.5	5.3	1.0	3.8	.5	.5	.7	.2	2.4	41.2	11.0
Ky.	55	6	3	2	1	-	-	3	1	3	21	5
Tenn.	48	12	2	2	5	2	-	1	-	1	24	3
Ala.	44	13	-	1	10	2	-	1	-	-	23	6
Miss.	34	5	-	-	12	3	-	2	-	-	43	1
Ark.	10	8	1	2	8	2	1	-	-	7	59	2
La.	19	7	-	-	7	3	1	-	-	2	53	8
Okla.	11	24	2	1	5	1	-	1	-	7	40	8
Tex.	14	14	1	-	9	1	-	-	1	3	47	10
S. Cent.	30.3	11.5	1.4	.9	6.5	1.4	.2	1.1	.4	3.1	37.4	5.8
Mont.	1	47	35	3	1	-	-	-	-	5	4	4
Idaho	4	36	25	13	-	-	-	-	-	3	14	5
Wyo.	4	32	41	1	1	-	-	1	-	1	17	2
Colo.	20	19	27	1	2	-	1	1	-	6	14	9
Ariz.	-	1	20	-	2	-	-	-	-	1	69	7
Utah	1	13	49	4	1	-	-	-	-	3	23	6
Wash.	1	12	4	1	1	-	1	-	-	6	67	7
Oreg.	1	10	7	2	1	-	-	-	-	3	73	3
Calif.	-	2	7	-	2	1	1	-	-	5	67	15
West	2.5	10.6	12.9	1.9	1.6	.3	.4	.3	.2	4.5	54.2	10.6
U. S.	31.7	23.1	3.3	.8	1.6	.3	1.0	1.1	.4	2.9	28.7	5.1

1/ Based on reports of rations fed on May 1 and November 1. Several minor States not shown separately are included in regional and U. S. averages.

Table 9.--Individual feeds as percentage of the total concentrate ration fed to milk cows in herds kept by dairy reporters, by regions, May 1, and November 1, 1953-54

Region	Date	Corn	Small grains		Oil seeds and oil-seed meals				Other millfeeds		Conner- cial mixed feed	Miso. other	
			Oats	Barley	Wheat	Cotton- seed meal	Cot- ton seed	Lin- seed meal	Soybeans or S. B. meal	Gluten feed or meal			Wheat bran, shorts
Percent of total													
N. Atl.	1953 May 1	15.6	12.4	1.6	.6	.2	-	.7	1.4	1.6	2.4	59.5	4.0
	Nov. 1	12.7	13.9	2.7	1.5	.3	-	.5	1.1	1.1	1.9	60.3	4.0
	1954 May 1	15.4	11.6	1.9	1.2	.3	-	.4	1.0	.9	1.8	60.6	4.9
E. N. Cent.	Nov. 1	11.4	15.5	3.8	1.3	.1	-	.6	.6	1.1	1.6	59.4	4.6
	1953 May 1	47.9	31.3	1.1	.5	.2	-	2.1	2.7	.4	2.8	7.8	3.2
	Nov. 1	48.2	31.6	1.0	.8	.2	-	2.1	2.2	.4	3.1	7.0	3.4
W. N. Cent.	1954 May 1	48.8	31.8	1.0	.5	.2	-	2.3	1.7	.3	2.9	7.1	3.4
	Nov. 1	44.3	36.0	1.6	.5	.2	-	2.2	1.3	.3	3.2	7.8	2.6
	1953 May 1	47.1	28.3	2.4	.4	.5	-	.7	2.5	.2	3.5	11.4	3.0
S. Atl.	Nov. 1	48.4	28.4	2.2	.5	1.2	.3	.7	1.8	-	3.4	9.5	3.6
	1954 May 1	47.4	27.2	2.0	.5	1.0	.2	.7	1.4	.2	3.4	12.1	3.9
	Nov. 1	40.0	36.0	4.0	.2	.8	.2	.5	1.2	.1	2.9	10.9	3.2
S. Cent.	1953 May 1	27.9	8.1	3.3	.8	2.8	.3	.5	1.6	.5	2.2	47.7	4.3
	Nov. 1	21.3	11.1	5.3	1.4	3.7	.5	.4	1.1	.2	2.2	39.1	13.7
	1954 May 1	25.5	9.5	3.4	1.0	5.0	.5	.4	.8	.2	3.3	44.2	6.2
S. Cent.	Nov. 1	18.3	13.5	7.1	1.0	2.5	.6	.7	.7	.1	1.5	38.5	15.5
	1953 May 1	30.2	7.3	.6	.7	5.7	.8	.4	2.2	.5	4.5	42.1	5.0
	Nov. 1	30.9	11.5	1.1	.7	7.6	1.9	.3	1.0	.3	4.2	35.1	5.4
West	1954 May 1	32.2	8.9	.8	1.3	6.8	1.4	.2	1.0	.6	3.0	38.0	5.8
	Nov. 1	27.5	14.4	2.1	.6	6.4	1.4	.2	1.1	.2	3.3	36.9	5.9
	1953 May 1	3.9	9.4	12.1	1.6	2.3	.1	.2	.5	-	4.9	54.0	10.8
U. S.	Nov. 1	1.4	11.2	11.5	2.1	1.7	.1	.4	1.1	.1	4.4	58.6	8.4
	1954 May 1	2.9	10.0	12.3	1.8	1.9	.4	.4	.3	-	4.8	53.0	12.2
	Nov. 1	2.1	11.0	13.2	1.9	1.3	.3	.5	.1	.5	4.3	55.9	8.9
U. S.	1953 May 1	33.8	20.5	2.6	.7	1.3	.1	1.0	2.1	.6	3.2	29.8	4.3
	Nov. 1	33.1	21.7	2.9	1.0	1.7	.3	1.0	1.5	.4	3.1	28.3	5.0
	1954 May 1	34.4	20.6	2.6	.9	1.7	.3	1.0	1.2	.4	3.0	28.8	5.1
U. S.	Nov. 1	29.4	25.7	4.1	.8	1.3	.3	1.0	1.0	.4	2.8	28.2	5.0

Table 10.—Home-grown feed as percentage of the total concentrate ration fed to milk cows in herds kept by dairy reporters, by regions, 1931-40 av., and specified dates, 1945-54

Date	North Atlantic	East North Central	West North Central	South Atlantic	South Central	West	United States
P e r c e n t							
1931-40 Av. 1/	20.2	68.8	71.0	33.9	38.4	25.6	51.6
1945 May 1	17.2	64.4	73.2	25.3	32.5	19.2	48.4
Nov. 1	15.6	69.2	73.9	29.3	33.6	24.4	50.6
1946 May 1	16.7	68.6	71.7	38.6	30.6	18.6	49.6
Nov. 1	21.7	72.2	77.4	28.5	44.7	24.0	54.8
1947 May 1	22.2	65.8	72.3	39.5	31.4	16.8	49.8
Nov. 1	20.3	68.5	72.3	29.4	40.7	23.5	51.6
1948 May 1	19.3	68.7	66.9	36.1	34.1	22.6	49.4
Nov. 1	22.7	73.0	75.7	30.9	36.9	25.6	53.9
1949 May 1	23.5	70.6	73.7	37.8	32.8	21.0	51.5
Nov. 1	24.4	74.6	75.5	31.0	39.5	23.2	54.0
1950 May 1	24.8	71.8	73.0	33.7	30.1	17.6	51.2
Nov. 1	26.7	73.3	74.2	32.6	34.1	21.0	53.1
1951 May 1	26.9	71.1	69.4	37.8	33.4	18.1	51.3
Nov. 1	29.7	72.0	73.6	35.0	28.9	19.2	52.5
1952 May 1	27.4	71.3	68.3	36.4	24.6	15.2	49.8
Nov. 1	29.0	76.5	70.4	29.9	31.6	17.8	52.2
1953 May 1	27.2	72.3	69.6	31.8	26.4	15.0	49.3
Nov. 1	27.3	76.2	71.2	32.1	34.1	18.3	52.1
1954 May 1	25.4	74.6	69.8	30.2	29.3	15.4	50.3
Nov. 1	28.5	74.8	73.0	33.3	32.9	18.2	52.6

1/ Reports for 1931-37 were as of October 1, for 1938-40 as of November 1.

Table 11.—Home-grown feed as percentage of total of that kind used in concentrate rations fed to milk cows in herds kept by dairy reporters, United States, 1931-40 av., and specified dates, 1945-54

Date	Corn	Oats	Barley	Wheat	Cotton- seed (unpressed)	Soybeans or S. B. meal	Total con- centrate ration 1/
P e r c e n t							
1931-40 Av. 2/	83.7	85.9	74.7	76.6	64.1	3/	51.6
1945 May 1	83.9	85.5	69.4	53.4	47.2	16.5	48.4
Nov. 1	85.2	87.7	72.6	59.2	39.5	17.8	50.6
1946 May 1	85.1	84.8	67.0	60.1	36.9	22.0	49.6
Nov. 1	87.6	86.9	75.0	62.6	54.7	23.9	54.8
1947 May 1	82.5	83.6	68.9	58.5	51.2	22.9	49.8
Nov. 1	87.5	87.2	71.1	73.0	44.0	20.8	51.6
1948 May 1	85.4	87.0	75.9	71.2	41.2	20.6	49.4
Nov. 1	89.6	89.4	81.1	80.2	50.5	23.8	53.9
1949 May 1	86.6	86.8	71.9	79.0	47.2	20.2	51.5
Nov. 1	88.2	88.4	75.8	86.1	60.7	24.1	54.0
1950 May 1	86.5	84.8	60.5	73.9	45.5	25.3	51.2
Nov. 1	86.4	88.7	68.8	82.4	46.4	21.7	53.1
1951 May 1	84.5	85.3	68.5	75.1	23.8	20.7	51.3
Nov. 1	85.4	87.3	72.7	76.7	36.9	15.6	52.5
1952 May 1	84.9	85.5	66.6	74.7	26.5	16.8	49.8
Nov. 1	86.0	87.6	76.0	79.5	42.8	19.1	52.2
1953 May 1	84.9	83.8	75.0	71.3	36.7	25.3	49.3
Nov. 1	87.3	88.1	79.0	79.0	26.8	19.8	52.1
1954 May 1	85.4	85.4	74.6	71.4	41.3	16.5	50.3
Nov. 1	85.3	87.8	75.7	81.5	42.3	20.0	52.6

1/ Includes many purchased feeds such as bran, commercial mixed feed, etc. which are not listed in previous columns.

2/ Reports for 1931-37 were as of October 1, for 1938-40 as of November 1.

3/ Not listed separately on schedule prior to 1937.

Table 12.—Home-grown feeds as percentage of total of that kind used in the concentrate rations fed to milk cows kept by dairy reporters, by States, 1953 and 1954 ^{1/}

State and Division	Total concentrate ration		Corn		Oats		Barley	
	1953	1954	1953	1954	1953	1954	1953	1954
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Me.	1	3	-	-	-	-	-	-
N. H.	a/	a/	-	-	-	-	-	-
Vt.	1	1	-	-	-	-	-	-
Mass.	a/	a/	-	-	-	-	-	-
Conn.	a/	a/	-	-	-	-	-	-
N. Y.	23	23	74	86	87	88	97	88
N. J.	24	16	88	80	-	-	-	-
Pa.	49	49	90	87	83	81	94	87
N. Atl.	27.2	26.9	85.8	85.8	84.3	83.4	94.3	87.5
Ohio	75	76	93	91	89	87	-	-
Ind.	80	79	94	93	90	87	-	-
Ill.	78	79	93	92	86	88	-	-
Mich.	77	80	91	94	90	93	91	96
Wis.	69	69	87	86	91	91	88	89
E. N. Cent.	74.0	74.6	91.0	90.3	89.8	90.2	89.8	92.6
Minn.	81	83	94	95	93	96	97	96
Iowa	83	85	93	94	91	92	-	-
Mo.	34	32	67	51	70	75	92	83
N. Dak.	87	97	88	99	89	99	98	98
S. Dak.	87	93	95	96	90	97	-	-
Nebr.	80	80	91	95	82	87	-	-
Kans.	44	43	68	63	54	57	-	-
W. N. C.	70.1	71.2	88.1	87.6	87.2	90.9	86.4	87.2
Del.	45	65	95	90	-	-	-	-
Md.	46	52	85	86	63	82	88	92
Va.	38	33	81	85	89	78	93	83
W. Va.	34	28	84	78	-	-	-	-
N. C.	47	47	81	65	90	84	-	-
S. C.	34	32	69	66	79	77	-	-
Ga.	17	17	38	41	58	54	-	-
Fla.	2	3	-	-	-	-	-	-
S. Atl.	32.0	31.9	76.2	75.8	76.7	73.3	90.4	85.3
Ky.	46	53	72	81	-	-	-	-
Tenn.	56	55	86	82	79	81	-	-
Ala.	32	46	60	74	-	-	-	-
Miss.	41	30	82	67	-	-	-	-
Ark.	11	12	50	38	-	-	-	-
La.	13	13	-	-	-	-	-	-
Okla.	16	21	47	30	41	52	-	-
Tex.	14	13	44	30	40	34	-	-
S. Cent.	29.8	31.5	70.5	68.5	53.6	57.1	86.6	59.5
Mont.	65	65	-	-	75	75	81	77
Idaho	65	64	-	-	80	72	85	86
Wyo.	54	52	-	-	-	-	-	-
Colo.	43	37	54	55	61	51	69	56
Ariz.	4	14	-	-	-	-	-	-
Utah	48	53	-	-	-	-	82	78
Wash.	8	11	-	-	64	74	-	-
Oreg.	17	16	-	-	73	80	-	-
Calif.	1	1	-	-	-	-	14	11
West	16.5	17.0	48.3	49.7	67.5	66.3	58.8	54.5
U. S.	50.8	51.1	86.4	85.5	85.0	86.2	77.5	74.6

^{1/} Percentages shown are based on reports of rations fed on May 1 and November 1. Under corn, oats, and barley, figures are shown only for States where the particular feed was of considerable importance in milk cow rations.

a/ Less than .5 of 1 percent.

Table 13.—Estimated value per 100 pounds of concentrate rations fed to milk cows, by States and months, 1954

State	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	12-month average
D o l l a r s													
Me.	4.20	4.30	4.32	4.35	4.37	4.25	4.18	4.14	4.15	4.16	4.20	4.24	4.24
N.H.	4.24	4.28	4.32	4.32	4.31	4.17	4.06	4.07	4.07	4.06	4.06	4.15	4.10
Vt.	4.18	4.22	4.22	4.24	4.24	4.11	4.02	3.98	3.99	3.99	3.99	4.05	4.10
Mass.	4.24	4.29	4.25	4.22	4.20	4.13	4.09	4.09	4.09	4.04	4.04	4.08	4.15
R.I.	4.26	4.26	4.20	4.16	4.13	4.09	4.04	4.04	4.06	4.08	4.09	4.09	4.12
Conn.	4.20	4.23	4.26	4.29	4.29	4.16	4.08	4.02	4.05	4.05	4.05	4.10	4.15
N.Y.	3.82	3.87	3.88	3.89	3.84	3.72	3.66	3.66	3.68	3.67	3.68	3.71	3.76
N.J.	3.93	3.96	3.98	4.03	4.06	4.02	3.96	3.96	3.95	3.87	3.84	3.89	3.95
Pa.	3.76	3.77	3.78	3.80	3.79	3.74	3.71	3.70	3.71	3.64	3.66	3.65	3.73
Ohio	3.19	3.19	3.22	3.20	3.20	3.18	3.16	3.14	3.14	3.10	3.06	3.12	3.16
Ind.	2.96	3.04	3.06	3.08	3.09	3.09	3.07	3.06	2.98	2.92	2.88	2.93	3.01
Ill.	3.01	3.08	3.09	3.08	3.07	3.08	3.10	3.17	3.17	3.00	2.90	2.94	3.06
Mich.	3.17	3.18	3.19	3.18	3.17	3.16	3.22	3.28	3.26	3.16	3.07	3.05	3.17
Wis.	3.09	3.15	3.18	3.21	3.16	3.08	3.03	3.05	3.08	3.04	3.01	3.03	3.09
Minn.	2.77	2.82	2.83	2.77	2.76	2.73	2.66	2.64	2.69	2.60	2.52	2.53	2.69
Iowa	2.94	2.95	2.95	2.90	2.86	2.85	2.80	2.86	2.90	2.80	2.75	2.81	2.86
Mo.	3.08	3.12	3.18	3.16	3.15	3.02	2.96	3.04	3.06	2.98	2.98	2.99	3.06
N.Dak.	2.10	2.11	2.07	2.02	1.99	1.96	1.91	1.86	1.93	1.93	1.92	1.92	1.98
S.Dak.	2.42	2.39	2.40	2.38	2.37	2.36	2.40	2.43	2.45	2.32	2.22	2.22	2.36
Nebr.	2.93	2.93	2.93	2.90	2.87	2.80	2.69	2.73	2.80	2.74	2.68	2.71	2.81
Kans.	3.01	3.02	3.05	3.06	3.00	2.96	2.96	3.04	3.04	2.92	2.82	2.85	2.98
Del.	3.87	3.91	3.94	3.88	3.76	3.70	3.68	3.72	3.75	3.75	3.75	3.81	3.79
Md.	3.94	3.95	3.99	3.99	3.93	3.90	3.86	3.95	3.92	3.76	3.79	3.82	3.90
Va.	3.90	3.92	3.98	4.00	3.92	3.86	3.80	3.82	3.84	3.81	3.88	3.89	3.88
W. Va.	4.24	4.30	4.36	4.39	4.38	4.33	4.32	4.28	4.22	4.01	4.04	4.06	4.24
N.C.	3.72	3.84	3.88	3.88	3.88	3.75	3.73	3.75	3.75	3.64	3.68	3.71	3.77
S.C.	3.74	3.76	3.73	3.71	3.59	3.51	3.50	3.55	3.56	3.51	3.56	3.60	3.61
Ga.	3.56	3.60	3.64	3.64	3.61	3.59	3.58	3.62	3.60	3.57	3.59	3.59	3.60
Fla.	3.09	3.06	3.11	3.14	3.08	3.00	3.02	3.00	3.00	3.00	3.03	3.06	3.05
Ky.	3.64	3.68	3.70	3.66	3.63	3.58	3.56	3.65	3.66	3.41	3.28	3.35	3.57
Tenn.	3.44	3.49	3.52	3.44	3.36	3.36	3.39	3.49	3.52	3.45	3.37	3.39	3.44
Ala.	3.52	3.54	3.56	3.46	3.40	3.38	3.38	3.46	3.47	3.43	3.41	3.43	3.45
Miss.	3.36	3.45	3.50	3.53	3.51	3.51	3.50	3.53	3.53	3.45	3.40	3.43	3.48
Ark.	3.29	3.35	3.42	3.45	3.53	3.48	3.46	3.50	3.54	3.44	3.38	3.38	3.44
La.	3.85	3.77	3.78	3.74	3.74	3.74	3.78	3.78	3.81	3.71	3.65	3.65	3.75
Okla.	3.32	3.40	3.46	3.44	3.36	3.20	3.20	3.25	3.26	3.26	3.28	3.30	3.31
Tex.	3.48	3.53	3.56	3.54	3.51	3.45	3.44	3.48	3.53	3.45	3.40	3.44	3.48
Mont.	2.78	2.85	2.87	2.87	2.88	2.88	2.86	2.72	2.68	2.64	2.67	2.68	2.78
Idaho	3.04	3.10	3.10	3.07	3.07	3.12	3.16	3.15	3.10	3.04	2.99	3.03	3.08
Wyo.	3.15	3.16	3.17	3.09	3.14	3.17	3.17	3.06	3.04	3.02	3.04	3.06	3.11
Colo.	3.20	3.25	3.29	3.30	3.36	3.40	3.40	3.28	3.18	3.12	3.12	3.20	3.26
N.Mex.	3.65	3.65	3.65	3.58	3.56	3.52	3.46	3.48	3.55	3.60	3.66	3.60	3.58
Ariz.	3.88	3.90	3.89	3.85	3.74	3.66	3.60	3.60	3.62	3.62	3.66	3.67	3.72
Utah	3.27	3.27	3.27	3.27	3.27	3.33	3.24	3.15	3.09	3.07	3.12	3.18	3.21
Nev.	3.44	3.47	3.48	3.50	3.50	3.54	3.49	3.45	3.39	3.39	3.36	3.38	3.45
Wash.	3.68	3.64	3.63	3.60	3.60	3.62	3.58	3.52	3.52	3.50	3.49	3.44	3.57
Oreg.	3.68	3.73	3.70	3.70	3.70	3.73	3.70	3.60	3.45	3.45	3.45	3.45	3.61
Calif.	3.66	3.66	3.65	3.54	3.43	3.44	3.32	3.33	3.35	3.35	3.36	3.39	3.45
U. S.	3.33	3.38	3.40	3.38	3.35	3.30	3.26	3.28	3.29	3.21	3.18	3.21	3.30

Table 14. Estimated value per 100 pounds of concentrate rations fed to milk cows, by States, annual average, 1945-54

State	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954
D o l l a r s										
Me.	3.21	3.85	4.42	4.75	3.98	4.02	4.37	4.66	4.23	4.24
N. H.	3.14	3.75	4.32	4.70	3.91	3.96	4.35	4.64	4.21	4.18
Vt.	3.13	3.74	4.36	4.66	3.86	3.88	4.28	4.57	4.18	4.10
Mass.	3.18	3.78	4.40	4.73	3.92	3.94	4.42	4.69	4.23	4.15
R. I.	3.19	3.78	4.38	4.74	3.92	4.00	4.39	4.65	4.25	4.12
Conn.	3.20	3.78	4.36	4.70	3.92	3.95	4.38	4.57	4.26	4.15
N. Y.	3.03	3.65	4.17	4.48	3.64	3.58	3.90	4.31	3.89	3.76
N. J.	3.05	3.64	4.15	4.50	3.69	3.62	3.95	4.38	4.04	3.95
Pa.	2.96	3.53	4.04	4.39	3.59	3.54	3.91	4.20	3.84	3.73
Ohio	2.62	2.94	3.50	3.87	2.88	2.91	3.45	3.61	3.30	3.16
Ind.	2.40	2.85	3.51	3.67	2.77	2.95	3.46	3.43	2.94	3.01
Ill.	2.29	2.73	3.40	3.59	2.58	2.73	3.18	3.32	2.96	3.06
Mich.	2.68	3.07	3.69	3.84	2.96	3.01	3.46	3.60	3.29	3.17
Wis.	2.47	2.94	3.44	3.68	2.88	2.93	3.30	3.44	3.16	3.09
Minn.	2.10	2.57	3.26	3.38	2.41	2.58	2.96	2.90	2.77	2.69
Iowa	1.93	2.37	3.11	3.34	2.19	2.47	3.15	3.11	2.86	2.86
Mo.	2.53	3.04	3.56	3.75	2.87	2.93	3.49	3.80	3.32	3.06
N. Dak.	1.91	2.28	2.78	2.84	1.95	2.12	2.30	2.29	2.02	1.98
S. Dak.	1.94	2.30	2.81	3.02	2.12	2.37	2.58	2.53	2.38	2.36
Nebr.	1.93	2.47	3.17	3.25	2.33	2.57	2.99	3.09	2.87	2.81
Kans.	2.20	2.65	3.31	3.46	2.50	2.67	3.08	3.39	3.14	2.98
Del.	2.89	3.45	3.98	4.18	3.43	3.52	3.92	4.20	3.90	3.79
Md.	2.90	3.46	4.02	4.28	3.52	3.63	4.00	4.25	3.95	3.90
Va.	3.02	3.60	4.08	4.37	3.56	3.63	4.09	4.37	4.03	3.88
W. Va.	3.22	3.81	4.38	4.73	3.79	3.90	4.33	4.66	4.35	4.24
N. C.	3.07	3.67	4.11	4.27	3.52	3.59	3.92	4.05	3.93	3.77
S. C.	2.90	3.46	3.96	4.16	3.56	3.55	3.76	4.02	3.92	3.61
Ga.	3.06	3.70	4.12	4.28	3.53	3.60	3.88	4.02	3.73	3.60
Fla. 1/	3.29	3.35	3.56	3.48	3.13	3.03	3.42	3.70	3.48	3.05
Ky.	2.86	3.36	3.76	4.10	3.19	3.38	3.93	4.08	3.76	3.57
Tenn.	2.94	3.47	3.86	3.97	3.17	3.29	3.73	4.00	3.74	3.44
Ala.	3.01	3.58	4.17	4.25	3.41	3.35	3.69	4.00	3.80	3.45
Miss.	2.90	3.59	4.15	4.27	3.14	3.30	3.63	3.98	3.68	3.48
Ark.	2.84	3.56	3.97	4.12	3.25	3.31	3.82	4.12	3.66	3.44
La.	3.11	3.90	4.31	4.44	3.62	3.60	4.24	4.32	4.11	3.75
Okla.	2.62	3.23	3.64	3.96	3.16	3.23	3.63	3.98	3.53	3.31
Tex.	2.70	3.32	3.69	3.88	3.17	3.12	3.83	4.12	3.67	3.48
Mont.	2.25	2.67	3.18	3.21	2.62	2.66	2.77	3.29	3.00	2.78
Idaho	2.40	2.78	3.40	3.46	3.02	2.99	3.24	3.73	3.23	3.08
Wyo.	2.49	2.85	3.29	3.54	2.93	2.87	2.95	3.35	3.17	3.11
Colo.	2.46	2.89	3.37	3.42	2.71	2.74	3.32	3.74	3.29	3.26
N. Mex.	2.91	3.56	4.09	4.46	3.44	3.57	4.26	4.42	4.00	3.58
Ariz.	3.04	3.54	3.94	4.48	3.66	3.64	4.25	4.54	4.22	3.72
Utah	2.56	3.05	3.36	3.64	3.17	3.00	3.28	3.86	3.39	3.21
Nev.	2.69	3.20	3.70	3.83	3.18	3.23	3.64	4.22	3.78	3.45
Wash.	2.90	3.42	3.96	4.27	3.61	3.59	3.76	4.30	3.94	3.57
Oreg.	2.76	3.27	3.73	4.10	3.54	3.51	3.83	4.23	3.87	3.61
Calif.	2.93	3.51	3.88	4.19	3.45	3.25	3.76	4.19	3.90	3.45
U. S.	2.57	3.06	3.63	3.84	3.02	3.08	3.52	3.75	3.43	3.30

1/ Data for 1945 and prior years not comparable with recent years because citrus pulp had not been included as part of the concentrate ration in those years.

Table 15.-Estimated value per 100 pounds of concentrate rations fed to milk cows by regions and months, 1933-52 average and 1953-54 1/

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.
<u>NORTH ATLANTIC STATES</u>													
1933-52 av.	2.68	2.68	2.68	2.69	2.70	2.70	2.74	2.75	2.74	2.73	2.74	2.78	2.72
1953	4.22	4.16	4.14	4.10	4.02	3.91	3.82	3.84	3.80	3.76	3.71	3.80	3.94
1954	3.89	3.95	3.96	3.97	3.97	3.90	3.80	3.76	3.76	3.72	3.72	3.76	3.85
<u>EAST NORTH CENTRAL STATES</u>													
1933-52 av.	2.12	2.10	2.13	2.16	2.19	2.20	2.24	2.20	2.20	2.15	2.14	2.20	2.17
1953	3.36	3.28	3.28	3.24	3.20	3.13	3.13	3.13	3.06	2.96	2.92	3.02	3.14
1954	3.09	3.15	3.16	3.16	3.12	3.08	3.08	3.12	3.12	3.02	2.96	3.00	3.09
<u>WEST NORTH CENTRAL STATES</u>													
1933-52 av.	1.88	1.85	1.88	1.91	1.92	1.92	1.94	1.91	1.90	1.87	1.89	1.96	1.90
1953	3.07	2.99	3.00	2.92	2.89	2.88	2.92	2.90	2.80	2.70	2.72	2.84	2.89
1954	2.88	2.91	2.93	2.88	2.86	2.82	2.74	2.78	2.83	2.72	2.68	2.71	2.81
<u>SOUTH ATLANTIC STATES</u>													
1933-52 av.	2.58	2.58	2.58	2.62	2.65	2.65	2.68	2.70	2.69	2.68	2.68	2.70	2.65
1953	4.10	4.06	4.06	4.04	3.98	3.86	3.85	3.84	3.80	3.70	3.66	3.70	3.89
1954	3.69	3.74	3.79	3.80	3.74	3.68	3.66	3.70	3.70	3.63	3.66	3.68	3.71
<u>SOUTH CENTRAL STATES</u>													
1933-52 av.	2.33	2.34	2.37	2.41	2.44	2.44	2.47	2.47	2.45	2.43	2.43	2.46	2.42
1953	4.10	4.06	4.00	3.95	3.87	3.75	3.75	3.70	3.60	3.46	3.40	3.48	3.76
1954	3.52	3.56	3.60	3.55	3.52	3.46	3.46	3.51	3.54	3.44	3.40	3.44	3.50
<u>WESTERN STATES</u>													
1933-52 av.	2.34	2.34	2.36	2.37	2.33	2.38	2.41	2.40	2.40	2.39	2.42	2.46	2.39
1953	4.08	3.98	3.98	3.94	3.88	3.78	3.77	3.68	3.64	3.52	3.49	3.56	3.78
1954	3.52	3.54	3.54	3.49	3.44	3.44	3.40	3.36	3.34	3.30	3.30	3.32	3.42
<u>UNITED STATES - MILK-SELLING AREAS 2/</u>													
1933-52 av.	2.32	2.31	2.33	2.35	2.37	2.37	2.41	2.40	2.39	2.36	2.36	2.42	2.37
1953	3.76	3.69	3.67	3.62	3.57	3.48	3.46	3.45	3.39	3.29	3.25	3.34	3.50
1954	3.39	3.44	3.45	3.44	3.41	3.36	3.33	3.34	3.35	3.27	3.24	3.28	3.36
<u>UNITED STATES - CREAM SELLING AREAS 2/</u>													
1933-52 av.	2.03	2.00	2.03	2.06	2.08	2.08	2.10	2.08	2.08	2.04	2.05	2.11	2.06
1953	3.28	3.22	3.21	3.14	3.10	3.07	3.09	3.07	2.98	2.88	2.88	2.99	3.08
1954	3.03	3.06	3.08	3.04	3.01	2.97	2.91	2.95	2.98	2.88	2.84	2.87	2.97
<u>UNITED STATES - COMBINED MILK AND CREAM SELLING AREAS</u>													
1933-52 av.	2.23	2.21	2.24	2.27	2.28	2.28	2.32	2.30	2.29	2.26	2.27	2.32	2.27
1953	3.67	3.60	3.59	3.54	3.49	3.41	3.40	3.39	3.32	3.22	3.19	3.29	3.43
1954	3.33	3.38	3.40	3.38	3.35	3.30	3.26	3.28	3.29	3.21	3.18	3.21	3.30

1/ Estimates are based on quarterly reports from dairy correspondents on value per 100 pounds of concentrate rations actually being fed, with intervening months interpolated on basis of monthly reports in a few States, and changes in prices of feeds usually included in the ration. For more detailed discussion of series see page 21 of "Rations Fed to Milk Cows", Bureau of Agricultural Economics release dated January 1945.

2/ Averages for milk-selling areas were obtained by combining regional values in proportion to tonnages of ration fed to obtain the whole milk sold by farmers to plants and dealers. For cream areas, regional weights were based on tonnages fed to obtain the milk skimmed on farms for sale as cream.

Table 16.--Milk-feed price ratios, by regions and months, 1933-52
average and 1952-54 1/

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Av.
<u>P o u n d s</u>													
<u>NORTH ATLANTIC STATES</u>													
1933-52													
av.	1.29	1.27	1.20	1.14	1.09	1.09	1.15	1.21	1.27	1.34	1.40	1.36	1.24
1952	1.27	1.23	1.15	1.07	1.02	1.03	1.14	1.19	1.25	1.32	1.35	1.29	1.19
1953 2/	1.21	1.18	1.12	1.04	1.01	1.04	1.16	1.22	1.34	1.38	1.45	1.33	1.21
1954	1.26	1.18	1.12	1.00	.94	.96	1.11	1.20	1.28	1.35	1.39	1.32	1.18
<u>EAST NORTH CENTRAL STATES</u>													
1933-52													
av.	1.31	1.29	1.24	1.18	1.13	1.12	1.13	1.19	1.26	1.35	1.39	1.36	1.25
1952	1.29	1.30	1.26	1.20	1.16	1.14	1.19	1.23	1.30	1.41	1.46	1.33	1.27
1953 2/	1.26	1.22	1.18	1.13	1.10	1.11	1.15	1.18	1.25	1.38	1.40	1.32	1.22
1954	1.24	1.17	1.12	1.03	.99	1.00	1.06	1.09	1.15	1.25	1.30	1.25	1.14
<u>WEST NORTH CENTRAL STATES</u>													
1933-52													
av.	1.54	1.52	1.45	1.39	1.32	1.33	1.34	1.42	1.49	1.59	1.61	1.56	1.46
1952	1.41	1.42	1.37	1.28	1.25	1.25	1.33	1.35	1.41	1.52	1.53	1.42	1.38
1953 2/	1.33	1.30	1.25	1.21	1.18	1.17	1.19	1.25	1.35	1.46	1.45	1.36	1.29
1954	1.31	1.25	1.18	1.10	1.07	1.07	1.15	1.19	1.24	1.35	1.37	1.32	1.22
<u>SOUTH ATLANTIC STATES</u>													
1933-52													
av.	1.56	1.54	1.52	1.45	1.36	1.36	1.38	1.40	1.45	1.53	1.58	1.57	1.47
1952	1.47	1.46	1.44	1.37	1.32	1.35	1.37	1.36	1.40	1.49	1.56	1.53	1.43
1953 2/	1.48	1.47	1.43	1.34	1.26	1.32	1.37	1.39	1.46	1.58	1.65	1.58	1.44
1954	1.51	1.46	1.40	1.30	1.26	1.29	1.38	1.36	1.42	1.52	1.56	1.53	1.42
<u>SOUTH CENTRAL STATES</u>													
1933-52													
av.	1.52	1.46	1.38	1.29	1.23	1.23	1.25	1.30	1.38	1.48	1.55	1.55	1.39
1952	1.50	1.46	1.41	1.30	1.28	1.26	1.29	1.32	1.41	1.55	1.59	1.55	1.41
1953 2/	1.44	1.37	1.27	1.18	1.15	1.17	1.21	1.26	1.38	1.51	1.59	1.53	1.34
1954	1.47	1.36	1.26	1.15	1.12	1.12	1.16	1.22	1.31	1.43	1.50	1.48	1.30
<u>WESTERN STATES</u>													
1933-52													
av.	1.36	1.32	1.28	1.21	1.13	1.17	1.18	1.23	1.29	1.36	1.39	1.39	1.28
1952	1.31	1.29	1.27	1.21	1.17	1.18	1.21	1.24	1.29	1.32	1.38	1.38	1.27
1953 2/	1.34	1.31	1.25	1.17	1.13	1.14	1.15	1.20	1.27	1.35	1.39	1.36	1.26
1954	1.34	1.26	1.20	1.14	1.13	1.12	1.14	1.18	1.25	1.31	1.34	1.34	1.23
<u>UNITED STATES</u>													
1933-52													
av.	1.34	1.32	1.26	1.20	1.14	1.14	1.17	1.23	1.29	1.37	1.42	1.39	1.27
1952	1.33	1.32	1.26	1.19	1.15	1.14	1.20	1.24	1.30	1.39	1.43	1.36	1.28
1953 2/	1.28	1.25	1.20	1.13	1.10	1.12	1.17	1.21	1.30	1.40	1.44	1.36	1.25
1954	1.30	1.22	1.17	1.07	1.03	1.04	1.11	1.16	1.23	1.32	1.36	1.32	1.19

1/ Pounds of concentrate ration equal in value to 1 pound of whole milk sold by farmers to plants and dealers. Obtained by dividing the price received by farmers for milk by the value per 100 pounds of concentrate rations fed to milk cows in milk-selling areas.

2/ Revised.

Table 17.-Butterfat-feed price ratios, selected regions,
by months, 1933-52 average and 1950-54 1/

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Av.
P o u n d s													
<u>EAST NORTH CENTRAL STATES</u>													
1933-52													
av.	23.5	23.3	22.8	22.3	21.3	21.0	21.0	21.6	22.3	23.4	23.9	23.9	22.5
1950	22.6	23.0	22.6	21.6	19.9	20.0	19.8	20.2	20.5	21.4	21.3	21.0	21.2
1951	22.0	21.2	20.7	20.2	20.6	20.6	20.2	20.1	20.0	21.3	21.4	21.8	20.8
1952	22.3	23.2	21.8	20.5	20.1	19.8	20.5	20.5	20.7	21.0	21.4	20.6	21.0
1953 2/	19.9	20.2	20.1	19.8	20.0	20.2	20.1	20.2	20.6	21.9	22.5	21.7	20.6
1954	20.5	19.9	19.2	17.5	17.6	17.4	17.3	17.1	17.3	18.0	18.5	18.3	18.2
<u>WEST NORTH CENTRAL STATES</u>													
1933-52													
av.	27.3	27.2	26.2	25.6	24.8	24.3	24.4	25.1	25.9	27.3	27.6	27.5	26.1
1950	26.9	27.4	26.5	25.1	23.1	23.0	22.7	23.9	24.4	25.3	24.8	24.5	24.8
1951	25.0	24.4	23.7	23.4	23.7	23.6	23.3	23.5	23.6	24.0	24.1	25.1	24.0
1952	26.1	27.2	24.9	23.3	23.3	23.5	24.5	24.3	24.5	25.1	24.7	23.5	24.6
1953 2/	22.8	23.1	22.9	23.3	23.3	23.3	22.9	23.2	24.2	25.4	25.4	24.3	23.7
1954	23.6	23.0	22.0	20.2	20.2	20.4	20.9	20.7	20.2	21.6	21.9	22.1	21.4
<u>SOUTH CENTRAL STATES</u>													
1933-52													
av.	19.0	18.8	18.1	17.7	16.9	16.7	16.8	16.9	17.5	18.2	18.6	19.1	17.9
1950	18.0	18.1	17.6	17.2	16.2	16.1	15.6	15.1	15.4	16.2	16.2	16.0	16.5
1951	17.0	17.0	16.7	16.0	16.3	15.9	15.7	16.0	16.0	16.4	16.2	16.6	16.3
1952	17.0	17.3	17.0	16.0	15.5	15.2	15.3	15.1	15.2	15.3	15.4	15.0	15.8
1953 2/	14.6	14.4	14.6	14.6	14.7	14.9	14.8	15.0	15.5	16.3	16.8	16.6	15.2
1954	16.1	15.8	14.9	13.6	13.7	14.0	13.8	13.5	13.5	14.0	14.6	14.3	14.3
<u>WESTERN STATES</u>													
1933-52													
av.	21.1	21.0	20.7	20.1	19.5	19.4	19.7	20.0	20.7	21.2	21.5	21.7	20.6
1950	20.2	20.3	20.1	19.1	18.3	18.2	17.6	17.8	18.5	19.4	19.7	20.1	19.1
1951	21.4	21.1	20.2	19.6	19.8	19.9	19.3	19.0	19.0	19.4	19.3	19.4	19.8
1952	19.6	20.2	19.1	17.8	17.5	17.3	18.0	18.3	18.3	18.3	18.2	17.6	18.4
1953 2/	17.0	16.9	16.7	16.6	16.9	17.1	17.0	17.6	17.8	18.6	19.1	18.7	17.5
1954	18.7	18.4	17.7	16.0	16.0	15.9	16.1	16.4	16.5	17.0	17.2	17.4	16.9
<u>UNITED STATES</u>													
1933-52													
av.	24.5	24.4	23.7	23.1	22.3	22.0	22.1	22.5	23.3	24.4	24.8	24.9	23.5
1950	24.1	24.5	23.9	22.7	21.1	21.0	20.7	21.3	21.9	22.7	22.5	22.2	22.4
1951	23.0	22.5	21.9	21.5	21.8	21.7	21.4	21.4	21.5	22.1	22.1	22.9	22.0
1952	23.7	24.5	22.9	21.5	21.3	21.4	22.1	22.0	22.1	22.6	22.4	21.4	22.3
1953 2/	20.9	21.0	20.9	21.1	21.2	21.2	21.0	21.2	22.0	23.1	23.3	22.4	21.6
1954	21.7	21.3	20.4	18.7	18.7	18.8	19.1	18.9	18.7	19.8	20.1	20.2	19.7

1/ Pounds of concentrate ration equal in value to 1 pound of butterfat. Obtained by dividing the midmonth price per pound received by farmers for butterfat in cream by the value per pound of concentrate rations fed to milk cows. For the United States, the ration value used is the average for cream-selling areas.

2/ Revised.

Table 18.—Hay and other roughage fed to milk cows in herds kept by dairy reporters, October-May winter feeding season, 1953-54

State and Division	Amount per cow			Kind of hay				Proportion of hay purchased
	Hay	Silage	Other rough- age	Hay	Clover,	Alfalfa	Other	
				equiv.	mixed			
				all rough- age 1/2	lespe- deza			
Tons			Percent of total			Percent		
Me., N.H., Vt.	2.7	2.6	a/	3.5	10	78	12	11
Mass., R.I., Conn.	2.5	3.3	a/	3.6	23	64	13	11
N. Y.	2.7	3.2	.1	3.9	22	51	27	4
N. J.	2.1	3.8	.1	3.4	54	31	15	14
Pa.	2.2	3.3	.1	3.3	53	38	9	6
N. Atl.	2.5	3.2	.1	3.6	29	52	19	7
Ohio	2.2	2.1	.2	3.0	58	35	7	12
Ind.	2.2	1.8	.1	2.8	58	35	7	4
Ill.	2.2	1.9	.1	2.9	76	20	4	8
Mich.	2.6	2.9	.1	3.6	74	21	5	7
Wis.	2.5	4.0	a/	3.8	65	32	3	4
E. N. Cent.	2.4	2.9	.1	3.4	66	29	5	6
Minn.	2.8	3.0	.1	3.9	76	15	9	4
Iowa	2.2	1.1	a/	2.6	66	27	7	6
Mo.	1.8	1.9	.2	2.6	57	19	24	51
N. Dak.	3.6	1.7	.3	4.3	53	1	46	2
S. Dak.	2.7	1.3	.5	3.4	60	1	39	7
Nebr.	2.1	2.1	.1	2.9	80	6	14	13
Kans.	1.6	1.4	.4	2.3	75	6	19	24
W. N. Cent.	2.4	1.9	.2	3.1	68	14	18	13
Del., Md.	2.2	2.8	.1	3.3	29	61	10	8
Va.	1.7	2.2	.2	2.5	47	37	16	12
W. Va.	2.5	1.6	.1	3.0	58	22	20	26
N. C.	1.9	1.7	.1	2.5	27	59	14	5
S. C.	1.1	1.2	.1	1.5	28	43	29	7
Ga.	1.3	.6	.2	1.6	25	32	43	11
S. Atl.	1.7	1.5	.1	2.3	35	42	23	18
Ky.	1.7	1.0	.2	2.1	39	43	18	13
Tenn.	1.5	.6	.1	1.8	23	58	19	11
Ala.	1.0	.3	.1	1.2	11	37	52	7
Miss.	.8	.6	.2	1.1	14	42	44	9
Ark.	1.2	.2	.2	1.3	18	29	53	22
Okla.	1.6	2.1	.3	2.4	60	4	36	26
Tex.	1.1	1.0	.3	1.6	50	9	41	60
S. Cent.	1.3	.9	.2	1.6	35	33	32	23
Mont.	2.8	.2	.1	2.9	82	5	13	12
Idaho	3.8	1.0	a/	4.1	93	4	3	17
Wyo.	3.5	1.1	.1	3.9	92	1	7	31
Colo.	2.9	2.8	.3	4.0	93	2	5	34
Utah	4.2	1.8	a/	4.8	92	4	4	17
Wash.	2.9	2.0	a/	3.6	66	19	15	20
Oreg.	2.6	1.4	.1	3.1	54	26	20	40
Calif.	3.0	.5	a/	3.2	93	2	5	77
West	3.1	1.2	.1	3.5	86	7	7	47
U. S.	2.2	2.1	.1	2.9	59	27	14	15

a/ Less than .05 ton per cow.

1/ In computing total hay equivalent, 3 tons of silage or 2 tons of other roughage were considered equal to 1 ton of hay.

Table 19.-Dairy pasture feed condition, first of month and average for pasture season, United States, 1917-54

Year	Apr. 1	May 1	June 1	July 1	Aug. 1	Sept. 1	Oct. 1	Nov. 1	Weighted av. for season 2/
	Percent of normal 1/								
1917	3/	80.9	82.7	87.1	83.3	80.4	76.9	3/	82.2
1918	3/	82.2	91.6	84.0	74.8	70.8	74.7	3/	79.8
1919	3/	90.2	96.8	95.8	85.0	81.9	78.5	3/	88.1
1920	3/	79.9	89.0	90.5	86.6	84.9	84.3	3/	85.9
1921	3/	90.8	90.0	80.8	74.3	80.1	84.5	3/	82.9
1922	3/	85.3	94.1	89.1	86.7	79.3	72.6	3/	84.7
1923	3/	78.2	84.6	84.8	76.6	77.1	82.8	3/	80.5
1924	77.7	80.6	82.1	87.3	82.7	79.3	80.8	3/	82.4
1925	79.3	84.0	76.4	75.9	74.6	69.3	74.1	3/	76.1
1926	81.5	73.0	75.8	76.6	69.0	78.9	84.7	3/	76.3
1927	87.5	86.7	89.5	92.8	87.1	81.4	78.6	3/	86.1
1928	81.1	71.3	78.6	83.5	85.9	84.8	78.8	3/	80.9
1929	79.9	87.1	86.7	87.5	78.9	65.7	68.6	3/	78.9
1930	74.2	76.6	80.5	76.0	58.2	45.8	52.8	3/	64.9
1931	75.9	77.5	77.9	74.9	64.2	62.2	65.2	3/	70.1
1932	70.9	74.3	78.3	77.8	69.5	64.8	64.0	3/	71.2
1933	64.6	71.8	82.5	63.5	55.7	57.3	63.7	3/	65.6
1934	70.1	66.0	53.3	51.5	43.8	47.0	59.2	59.7	53.2
1935	73.7	73.5	78.8	86.7	83.6	77.7	75.1	69.5	79.5
1936	69.6	71.2	77.0	60.9	40.9	42.3	59.9	64.1	58.6
1937	66.1	71.3	79.8	83.9	76.1	70.5	67.4	66.6	75.0
1938	82.5	84.0	86.3	86.5	84.3	78.4	77.7	70.7	82.9
1939	74.7	77.5	74.1	79.8	68.7	68.8	58.5	57.8	71.2
1940	70.6	74.0	82.6	85.5	73.5	74.1	72.8	69.0	77.2
1941	77.5	83.9	77.8	80.9	76.1	71.3	73.7	79.1	76.8
1942	75.2	82.5	88.9	91.6	87.8	88.7	87.6	82.2	87.8
1943	73.0	78.2	85.7	90.4	83.7	76.1	71.7	69.9	81.4
1944	77.5	80.4	89.6	85.5	71.4	65.9	75.4	73.4	78.0
1945	85.5	88.0	84.6	90.4	89.6	85.3	85.0	81.9	87.3
1946	81.4	84.8	85.8	86.4	79.6	73.7	76.1	76.4	81.0
1947	72.0	81.6	87.6	91.5	86.4	74.1	75.7	73.9	82.9
1948	74.2	85.3	84.4	82.5	82.1	76.0	69.7	67.5	79.7
1949	80.7	85.6	87.5	81.2	79.4	74.8	78.9	78.6	80.6
1950	75.3	74.8	83.1	86.5	86.8	82.2	84.3	81.3	82.9
1951	72.2	80.4	87.8	91.8	88.0	82.1	83.2	81.2	85.9
1952	75.8	88.0	88.4	81.4	72.9	74.8	71.8	58.2	79.7
1953	77.7	82.4	87.8	81.1	74.5	65.4	58.3	52.3	75.4
1954	69.3	83.2	81.4	82.3	64.9	68.7	68.0	73.1	75.0

1/ As reported by crop correspondents. Indicates current supply of feed for grazing relative to that expected from existing stands under very favorable weather conditions.

2/ April 1 through October 1 except prior to 1924 when April 1 figures were not available.

3/ Not available.

Table 20.-Dairy pasture feed condition, first of month
and average for pasture season, by States, 1954

State	Apr. 1	May 1	June 1	July 1	Aug. 1	Sept. 1	Oct. 1	Nov. 1	Weighted av. for season Apr. 1-Oct. 1
Division	Percent of normal								
Me.	85	91	95	98	97	93	93	88	95
N. H.	97	96	92	98	96	90	87	91	94
Vt.	96	92	93	99	94	90	86	89	93
Mass.	92	94	94	95	86	87	97	89	92
R. I.	94	88	91	89	73	96	85	87	87
Conn.	84	90	92	85	69	85	90	87	84
N. Y.	87	92	88	90	65	60	77	82	78
N. J.	81	86	88	64	25	60	83	82	68
Pa.	79	88	83	80	54	63	76	78	74
N. Atl.	90.2	88.0	87.5	63.4	68.7	79.7	81.5	79.9	
Ohio	74	86	78	81	68	83	81	87	80
Ind.	78	89	77	79	62	82	67	80	76
Ill.	77	88	80	77	50	70	60	74	71
Mich.	90	93	79	94	80	69	72	81	80
Wis.	78	87	78	92	80	78	84	83	83
E. N. Cent.	88.0	78.4	86.4	70.9	76.6	75.6	81.5	79.0	
Minn.	88	84	81	93	80	80	84	80	84
Iowa	74	83	76	87	65	79	80	89	78
Mo.	61	77	80	77	26	38	29	58	55
N. Dak.	78	74	77	92	80	81	84	79	82
S. Dak.	85	82	78	93	71	71	79	80	79
Nebr.	77	79	84	82	57	78	73	80	76
Kans.	67	73	86	77	45	53	46	59	64
W. N. Cent.	64.0	79.8	80.1	86.6	63.0	70.6	69.9	76.6	75.2
Del.	82	89	85	53	41	59	67	62	65
Md.	83	86	84	57	42	69	64	62	67
Va.	73	84	80	69	59	67	52	50	68
W. Va.	64	77	72	75	74	90	88	86	79
N. C.	81	90	87	71	62	60	47	49	70
S. C.	74	85	82	58	47	35	32	31	58
Ga.	78	83	77	62	51	45	36	30	62
Fla.	73	81	69	78	75	72	73	58	74
S. Atl.	77.6	84.6	80.4	66.3	57.0	62.2	54.1	51.7	68.2
Ky.	65	80	82	76	51	69	64	74	70
Tenn.	71	86	85	78	52	47	40	50	65
Ala.	72	87	79	65	54	37	34	35	61
Miss.	75	86	84	70	64	41	40	48	65
Ark.	66	77	82	64	35	24	24	50	53
La.	72	83	80	69	66	60	52	61	69
Okla.	58	67	86	73	36	30	25	38	54
Tex.	46	59	76	60	39	37	34	46	50
S. Cent.	60.5	74.5	81.5	69.1	46.3	42.2	38.2	49.6	59.1
Mont.	82	78	81	89	78	85	86	84	83
Idaho	88	87	88	89	89	87	86	82	88
Wyo.	73	74	70	61	50	53	51	45	59
Colo.	57	58	66	36	45	52	50	51	51
N. Mex.	46	59	66	51	54	56	58	56	56
Ariz.	82	80	78	74	83	91	84	90	82
Utah	82	81	83	76	71	65	69	73	74
Nev.	99	89	91	79	74	77	69	76	80
Wash.	80	74	81	89	92	92	96	89	86
Oreg.	84	88	83	89	88	86	88	85	87
Calif.	83	90	88	83	80	81	76	78	83
West	81.0	82.6	82.2	78.8	77.9	79.2	77.8	76.9	79.2
U. S.	69.3	83.2	81.4	82.3	64.9	68.7	68.0	73.1	75.0

Table 21.-Seasonal average dairy pasture feed condition,
by States, 1943-52 average and 1947-54 1/

State and Division	1943-52 av.	1947	1948	1949	1950	1951	1952	1953	1954
Percent of normal									
Me.	82	86	80	74	75	94	76	81	95
N. H.	83	89	85	70	76	93	84	71	94
Vt.	86	91	86	74	77	93	87	76	93
Mass.	82	88	86	63	79	94	83	72	92
R. I.	79	91	84	63	78	91	79	86	87
Conn.	83	92	84	66	90	93	87	78	84
N. Y.	83	90	84	64	82	87	80	77	78
N. J.	79	86	84	64	79	84	83	73	68
Pa.	82	89	85	77	85	80	79	71	74
N. Atl.	82.4	89.1	84.5	69.0	81.8	86.7	80.6	75.2	79.9
Ohio	83	89	85	86	87	80	79	78	80
Ind.	85	88	85	89	89	89	83	76	76
Ill.	86	82	85	88	87	92	83	72	71
Mich.	82	83	78	84	85	91	85	83	80
Wis.	82	81	64	76	81	97	92	80	83
E. N. C.	83.1	83.6	75.8	82.5	84.2	91.3	86.0	78.0	79.0
Minn.	82	78	76	75	74	94	86	86	84
Iowa	89	80	77	86	87	96	93	76	78
Mo.	84	79	87	91	88	91	71	51	55
N. Dak.	78	85	84	72	81	79	58	85	82
S. Dak.	82	83	85	69	78	93	73	86	79
Nebr.	85	86	80	92	85	93	82	72	76
Kans.	84	85	88	90	84	91	69	58	64
W. N. C.	83.7	81.0	80.8	82.3	81.5	92.5	80.0	74.7	75.2
Del.	81	83	90	70	83	84	82	79	66
Md.	82	86	88	85	84	82	85	74	67
Va.	85	82	91	96	90	82	77	66	68
W. Va.	84	82	90	88	89	83	80	69	79
N. C.	82	80	81	91	87	77	74	72	70
S. C.	76	77	77	85	75	69	73	68	58
Ga.	77	78	78	86	76	68	72	82	62
Fla.	78	77	77	77	76	79	79	80	74
S. Atl.	81.3	81.0	84.5	88.1	84.0	77.7	77.0	72.6	68.2
Ky.	82	91	78	88	93	77	69	70	70
Tenn.	80	83	72	93	91	76	61	74	65
Ala.	78	77	79	87	82	67	68	78	61
Miss.	77	77	80	87	84	70	64	76	66
Ark.	77	68	84	86	87	81	60	62	53
La.	78	72	72	88	86	69	77	79	69
Okla.	77	77	80	87	82	80	63	63	54
Tex.	71	73	63	85	81	61	57	60	50
S. Cent.	77.0	78.0	74.6	87.5	85.4	72.1	63.2	67.8	59.1
Mont.	82	88	90	62	90	82	74	86	83
Idaho	88	91	91	83	87	86	90	86	88
Wyo.	85	93	74	84	82	85	82	77	59
Colo.	81	94	81	90	63	78	73	72	51
N. Mex.	69	71	77	89	63	64	62	57	56
Ariz.	79	72	76	85	80	76	90	81	82
Utah	83	92	78	88	78	83	90	76	74
Nev.	86	91	78	89	81	86	90	80	80
Wash.	81	86	93	77	78	68	82	90	86
Oreg.	82	88	89	77	82	73	85	89	87
Calif.	77	73	75	70	79	78	85	77	83
West	80.3	83.1	82.8	76.7	78.8	77.0	82.6	80.9	79.2
J. S.	81.9	82.9	79.7	80.6	82.9	85.9	79.7	75.4	75.0

— Indicates supply of feed for grazing relative to that expected from existing stands under very favorable weather conditions. Seasonal figures are weighted averages of reports by crop correspondents on the first of each month during the period milk cows are on pasture.

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